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FILE 'HOME' ENTERED AT 10:55:24 ON 09 JUN 2005

=>

=> file reg

COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 10:55:35 ON 09 JUN 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 JUN 2005 HIGHEST RN 851931-88-9

DICTIONARY FILE UPDATES: 8 JUN 2005 HIGHEST RN 851931-88-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s direct black 168/cn
L1 1 DIRECT BLACK 168/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 85631-88-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4-[[4-[(2-amino-4-hydroxyphenyl)azol]phenyl]amino]-3-sulfophenyl]azo]-5-hydroxy-6-(phenylazo)-, trisodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

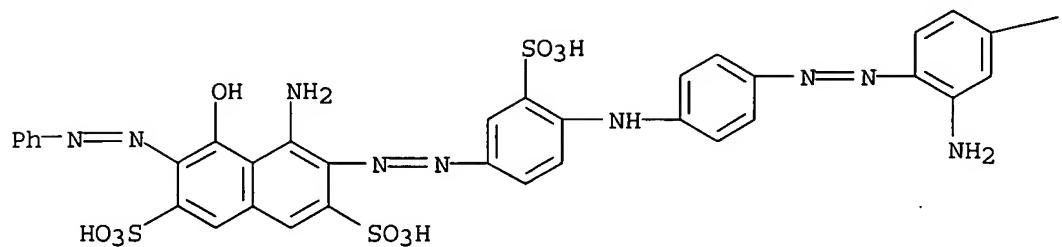
CN C.I. 30410
CN C.I. Direct Black 168
CN Coriacide Black SB
CN Direct Black 168
CN Direct Black H 8F-SF-VP132
CN Direct Black HEF-SF
CN Duasyn Direct Black HEF-SF
DR 83046-38-2
MF C34 H27 N9 O11 S3 . 3 Na
SR European Union (EU)
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS**, NDSL**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (72066-88-7)

PAGE 1-A



●3 Na

PAGE 1-B

—OH

131 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

131 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 1326-82-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN C.I. Sulphur Black 1 (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Asphalen Sulphur Black C

CN Asphalen Sulphur Black S

CN Atul Sulphur Black GXE

CN Atul Sulphur Black GXR

CN Atul Sulphur Black RP

CN C.I. 53185

CN C.I. Sulfur Black 1

CN Calcogene Black GX-CF

CN Diresul Black 4G-EV

CN Diresul Black EV 4G

CN Diresul Black P

CN Diresul Black PDK

CN Diresul Liquid Black 4G-EV

CN Diresul Liquid Black PDK

CN Eclipse Black BG

CN Eclipse Deep Black S

CN Fenoxy Black RD

CN Immedial Black AT

CN Immedial Black GN

CN Immedial Black MF

CN Immedial Carbon B

CN Immedial Carbon BO

CN Immedial Carbon BR

CN Immedial Carbon CBO

CN Immedial Carbon CM

CN Immedial Carbon CMR

CN Immedial Carbon LP

CN Immedial Carbon MLB

CN Immedial Carbon NGD

CN Immedial Carbon RRC

CN Immedial MFS Grains

CN Immedial Printing Black B paste

CN Katigen Deep Black NND-CF

CN Katigen Deep Black RND-CF

CN Kayaku Sulphur Black 3BX

CN Kayaku Sulphur Black BBR 200

CN Kayaku Sulphur Black BBX

CN Kayaku Sulphur Black BDX

CN Kayaku Sulphur Black BNX

CN Kayaku Sulphur Black BX

CN Kayaku Sulphur Black BX 200

CN Kayaku Sulphur Black BX 200 Flakes

CN Kayaku Sulphur Black G

CN Kayaku Sulphur Black TB

CN Mitsui Sulphur Black B

CN Mitsui Sulphur Black BC

CN Mitsui Sulphur Black BF

CN Mitsui Sulphur Black BO

CN Mitsui Sulphur Black BS

CN Mitsui Sulphur Black G

CN **Sulfur Black 1**

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY

DEF This substance is identified in the COLOUR INDEX by Colour Index Constitution Number, C.I. 53185.

DR 54293-33-3, 56645-74-0, 155925-45-4

MF Unspecified

CI MAN

LC STN Files: AQUIRE, BIOBUSINESS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, HSDB*, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-----------------|------------------|---------|------------------|
| L1 | 117 | (ink with set) and ((direct adj blue adj "86") or (direct adj blue adj "199") or (direct adj blue adj "307")) and ((reactive adj red adj "23") or (reactive adj red adj "31") or (acid adj red adj "80") or (acid adj red adj "82")) and ((direct adj yellow adj "86") or (direct adj yellow adj "107") or (direct adj yellow adj "132") or (direct adj yellow adj "173") or (acid adj yellow adj "99") or (acid adj yellow adj "114")) | US-PGPUB; USPAT | OR | ON | 2005/06/09 08:55 |
| L2 | 0 | (ink with set) and ((direct adj blue adj "86") or (direct adj blue adj "199") or (direct adj blue adj "307")) and ((reactive adj red adj "23") or (reactive adj red adj "31") or (acid adj red adj "80") or (acid adj red adj "82")) and ((direct adj yellow adj "86") or (direct adj yellow adj "107") or (direct adj yellow adj "132") or (direct adj yellow adj "173") or (acid adj yellow adj "99") or (acid adj yellow adj "114")) | DERWENT | OR | ON | 2005/06/09 08:54 |
| L3 | 259 | 106/31.52.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 08:58 |
| L4 | 200 | 106/31.5.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 09:51 |
| L5 | 313 | 106/31.48.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:26 |
| L6 | 293 | 106/31.47.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:26 |
| L7 | 377 | 106/31.49.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:26 |
| L8 | 251 | 106/31.51.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:27 |
| L9 | 980 | 106/31.58.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:27 |
| L10 | 623 | 106/31.6.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:27 |
| L11 | 1571 | 347/100.ccls. | US-PGPUB; USPAT | OR | ON | 2005/06/09 10:27 |

| | | | | | | |
|-----|---|--|------------------------------|----|----|------------------|
| L12 | 2 | (ink with set) and ((copper or cu) with phthalocyanine) and (anthropyridone or (azo adj naphthol)) and (azo adj aniline) and black | US-PGPUB;
USPAT | OR | ON | 2005/06/09 10:29 |
| L13 | 5 | ("4420550" "5364461" "5851273" "5997622" "6001161").PN | US-PGPUB;
USPAT;
USOCR | OR | ON | 2005/06/09 10:30 |
| L14 | 7 | ("6183548").URPN. | USPAT | OR | ON | 2005/06/09 10:57 |